



WELCOME NAC-AEGL!

AFIOH Overview Briefing

Dec 10, 2003

Mr. Eric Stephens
Director



U.S. AIR FORCE

AFIOH Mission



- Enhance Mission Effectiveness, Protect Health, Improve Readiness and Reduce Costs (Force Health Protection)
- Assess and Manage Risks (Radiological, Biological, Chemical & Operational)
- Risks to...
 - ✦ Human Health & Safety
 - ✦ Operational Performance
 - ✦ Environment

***“Sustaining Readiness
Through Healthy Communities since 1955”***



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Relevance



- DoD Health Affairs top priorities:
 - ✦ Provide a fit and healthy force
 - ✦ Build healthy communities
- AF/SG Doctrine:
 - ✦ Medical care in contingencies
 - ✦ Population based health care
 - ✦ Human performance
 - ✦ World health care



Mission Relevance NAC-AEGL to AFIOH



- AEGL Chemicals in DOD Inventory
 - ✦ 74% (343) AEGL chems in HMIS
 - ✦ 35 AEGL chems found at restoration sites (ERPIMS)
 - ✦ 56 AEGL chems listed on Superfund
- Sample of AEGLs of particular interest to AF

chem warfare agents	hydrogen chloride
hydrazines	oxides of nitrogen
CFC replacements	trichloroethylene
jet fuel	1,4-dioxane



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AFIOH Readiness Capabilities

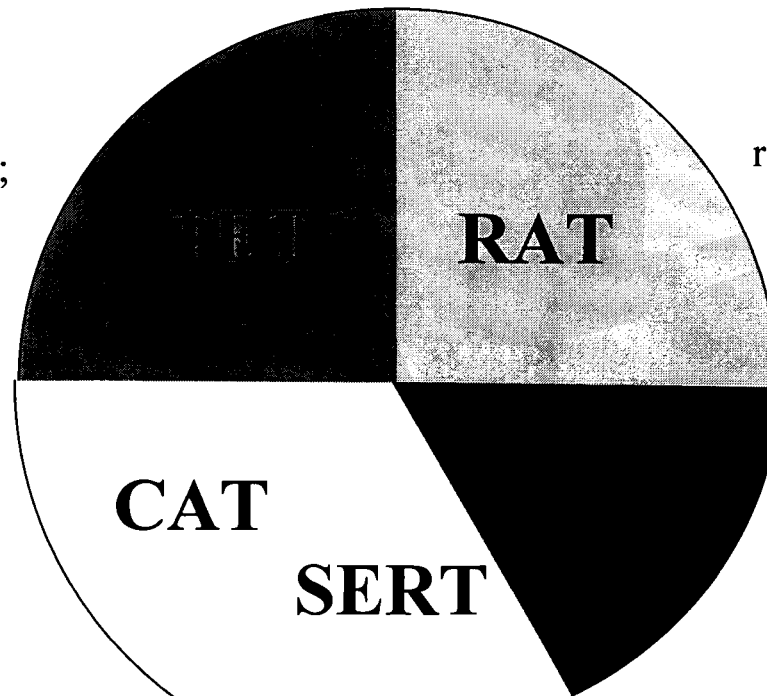


Theater Epidemiology Team (TET)

The Mission: Deployable disease and injury surveillance; threat assessments and countermeasure recommendations

Chemical Assessment Team (CAT)

The Mission: Analysis of air, soil, and water; health, occupation and environmental on-site risk assessments



Smallpox Epidemiology

Response Team (SERT)

The Mission: Deployable outbreak investigation team

Radiation Assessment Team (RAT)

The Mission: Response to radiation accidents/incidents; on-site health physics, bioenvironmental engineering, and occupational medicine

Biological Augmentation Team (BAT)

The Mission: Application of advanced molecular epidemiology techniques to rapidly identify diseases & microorganisms



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AFIOH Reachback



Risk Analysis Directorate

Health & Safety Division
Risk Assessment Division
Environmental Analysis Division

for Operational Medicine Directorate

Operational Medicine Division
Military/Civilian Partnerships Division
Exercises, Training & Education Division

DC

Operations Directorate

Task Response Division
Business Division
Systems Division

orate

Epidemiological Surveillance Division
Radiation Surveillance Division
Drug Testing Division
Chemistry Division

Detachment 3, Kadena AB



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Nuclear

Biological

AFIOH PARTNERS

USN
BuMed
OH-RA

NIEHS
Env Health
Risk Assess

TX Tech
Env
Toxicology

ESOH

**Texas
A&M**

UTHSC
Env
Health

USA
CHPPM
OH-RA

Chemical

ATSDR
Env Health
Assessment

NIH
Env Health
Assessment

ATSDR
Env Health
Assessment

EPA
Env Health
Assessment

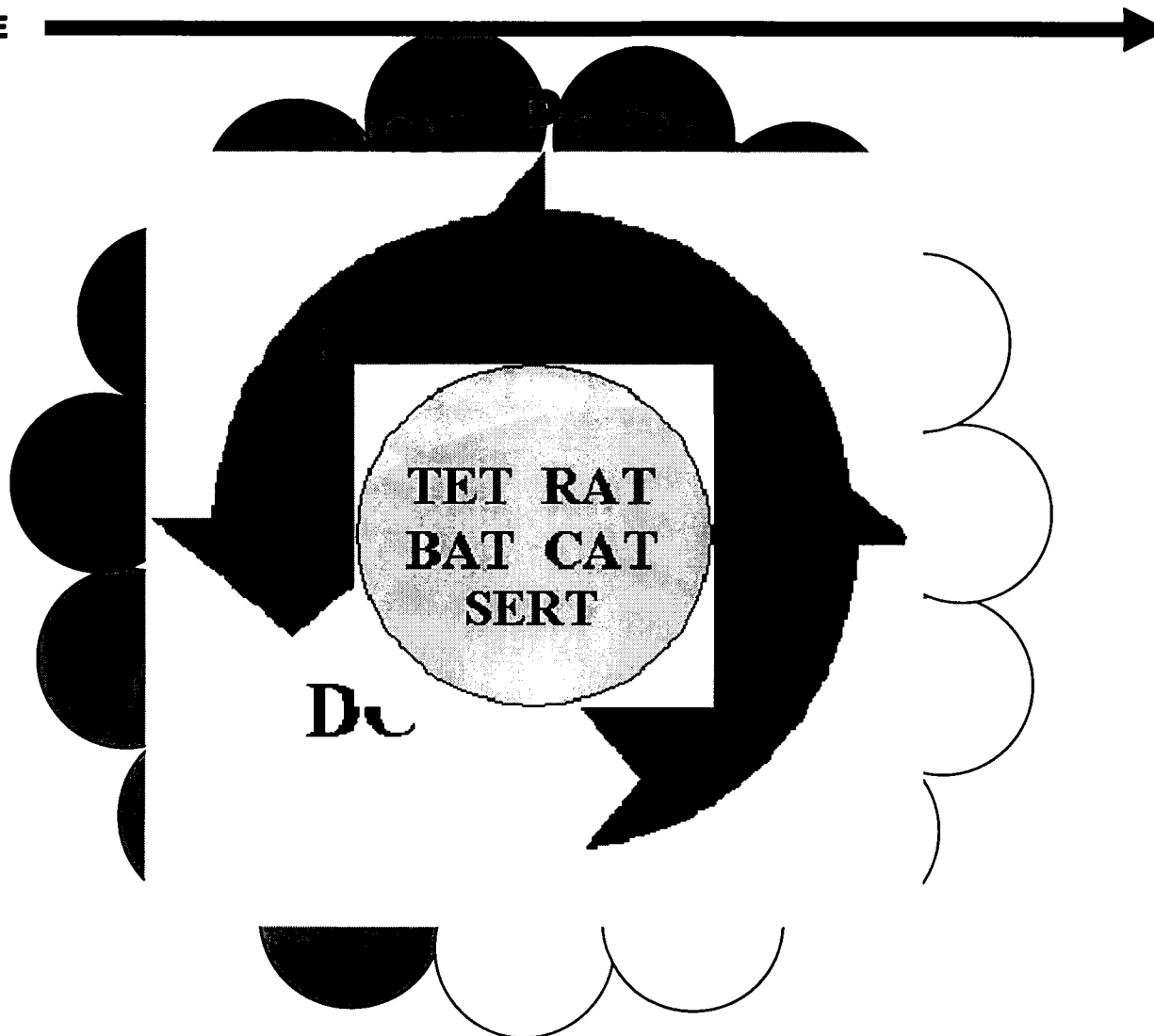
ATSDR
Env Health
Assessment

NIH
Env Health
Assessment



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Total Capability





Diverse Manpower Mix



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➤ **Core competencies produced from a diverse mix of professionals and technicians**

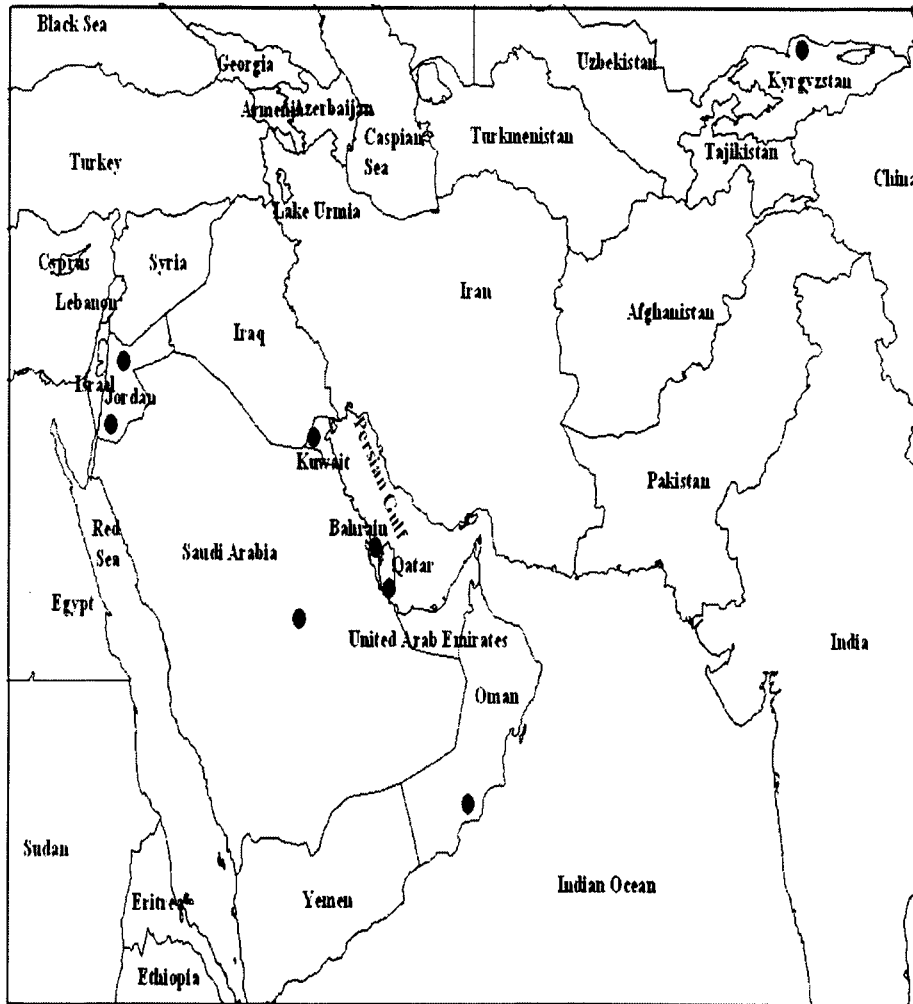
- ✦ **Toxicologists & Epidemiologists**
- ✦ **Virologists & Microbiologists**
- ✦ **Health Physicists & Chemists**
- ✦ **Preventive, Aerospace & Occupational MDs**
- ✦ **Industrial Hygienists & Ergonomists**
- ✦ **Environmental, Chemical & Bioenvironmental Engineers**
- ✦ **System & Program Managers**



Staff Deployments



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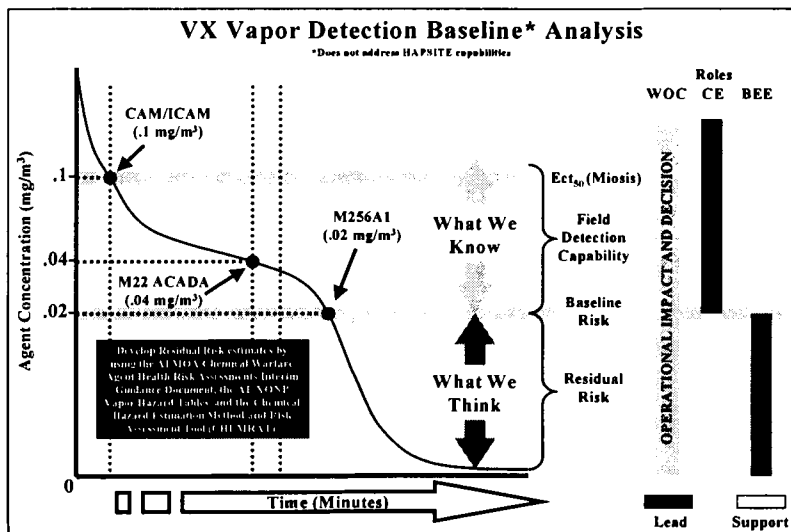
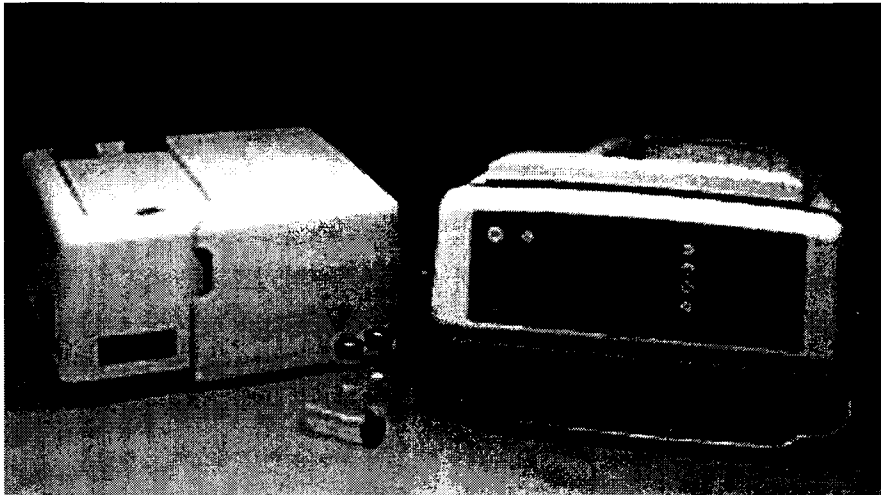


- 15 personnel - 7 countries
- 1 NCO, 4 airmen – Escort duty
- 3 PHOs – Preventive medicine
- 2 lab officers – BAT, AOR
bio-detection training
- 1 BEE – NBC detection
- 1 Doc – Preventive medicine
- 1 Admin SNCO – Postal svc.



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Chemical: Warfare Agent Identification



- Fielded COTS portable gas chromatograph/mass spectrometers to AOR
 - ✦ Identifies and quantifies Chemical Warfare Agents (CWAs)
 - ✦ Techniques used in CENTAF & USAFE
- Created AF Pamphlet for CWA health risk assessment
- Solidified reachback support for AOR analytical needs
- Partnering with CDC's Chemical Terrorism Laboratory Network
- DoD Triservice Lab WG

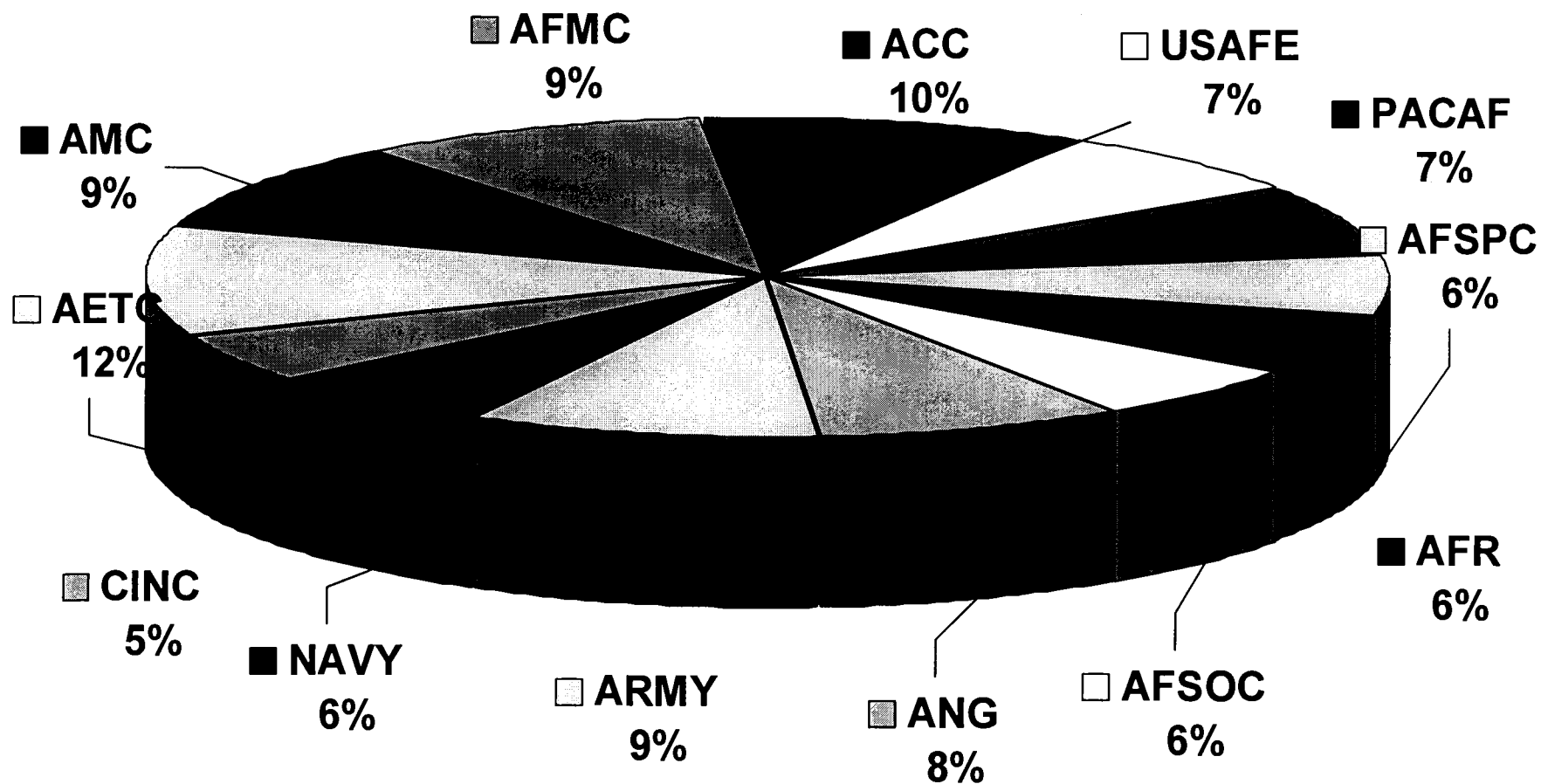


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Total Number = 2,000,000

Customers

In-House Sample Analysis





AFIOH Summary Products & Services



- **In-House Analysis (2M) + Environmental Exposures and Health Outcomes**
 - ✦ **Data** **50,000,000**
- **Customer Studies**
 - ✦ **Information** **2,000**
- **AF/DoD Databases/Reports**
 - ✦ **Knowledge** **18**



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AF Programs and Databases



- Master Radiation Exposure Registry
- Disease, Non-Battle Injury (DNBI)
- Hazardous Material Information System
- Air Emission Inventory
- Hearing Conservation Data Registry
- Suicide Events Surveillance
- AF Mortality Registry
- Alcohol and Drug Abuse



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Goals



➤ **Readiness**

✦ **Lighter, leaner, faster with better Reachback**

➤ **Customer Service**

✦ **Meet our customers expectations...make commitments and keep them.**

➤ **People**

✦ **Provide challenging work and an environment to excel.**



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QUESTIONS?

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